



USAV20020121USNP.ST25.txt
SEQUENCE LISTING

<110> LI, Zhuyin Julie
MEHDI, Shujaath

<120> METHOD FOR ASSAYING COMPOUNDS THAT DECREASE THE ACTIVITY OF
POLY(ADP-RIBOSE)-POLYMERASE (PARP)

<130> USAV2002/0121USNP

<140> 10/665,864
<141> 2003-09-18

<150> US 60/412,136
<151> 2002-09-19

<150> GB 0301628.4
<151> 2003-01-24

<160> 1

<170> PatentIn version 3.2

<210> 1
<211> 1042
<212> PRT
<213> Homo sapiens

<400> 1

Met Ser Tyr Tyr His His His His His Asp Tyr Asp Ile Pro Thr
1 5 10 15

Thr Glu Asn Leu Tyr Phe Gln Gly Ala Met Gly Ser Met Ala Glu Ser
20 25 30

Ser Asp Lys Leu Tyr Arg Val Glu Tyr Ala Lys Ser Gly Arg Ala Ser
35 40 45

Cys Lys Lys Cys Ser Glu Ser Ile Pro Lys Asp Ser Leu Arg Met Ala
50 55 60

Ile Met Val Gln Ser Pro Met Phe Asp Gly Lys Val Pro His Trp Tyr
65 70 75 80

His Phe Ser Cys Phe Trp Lys Val Gly His Ser Ile Arg His Pro Asp
85 90 95

Val Gln Val Asp Gly Phe Ser Glu Leu Arg Trp Asp Asp Gln Gln Lys
100 105 110

Val Lys Lys Thr Ala Glu Ala Gly Gly Val Thr Gly Lys Gly Gln Asp
115 120 125

Gly Ile Gly Ser Lys Ala Glu Lys Thr Leu Gly Asp Phe Ala Ala Glu
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135

140

Tyr Ala Lys Ser Asn Arg Ser Thr Cys Lys Gly Cys Met Glu Lys Ile
 145 150 155 160

Glu Lys Gly Gln Val Arg Leu Ser Lys Lys Met Val Asp Pro Glu Lys
 165 170 175

Pro Gln Leu Gly Met Ile Asp Arg Trp Tyr His Pro Gly Cys Phe Val
 180 185 190

Lys Asn Arg Glu Glu Leu Gly Phe Arg Pro Glu Tyr Ser Ala Ser Gln
 195 200 205

Leu Lys Gly Phe Ser Leu Leu Ala Thr Glu Asp Lys Glu Ala Leu Lys
 210 215 220

Lys Gln Leu Pro Gly Val Lys Ser Glu Gly Lys Arg Lys Gly Asp Glu
 225 230 235 240

Val Asp Gly Val Asp Glu Val Ala Lys Lys Lys Ser Lys Lys Glu Lys
 245 250 255

Asp Lys Asp Ser Lys Leu Glu Lys Ala Leu Lys Ala Gln Asn Asp Leu
 260 265 270

Ile Trp Asn Ile Lys Asp Glu Leu Lys Lys Val Cys Ser Thr Asn Asp
 275 280 285

Leu Lys Glu Leu Leu Ile Phe Asn Lys Gln Gln Val Pro Ser Gly Glu
 290 295 300

Ser Ala Ile Leu Asp Arg Val Ala Asp Gly Met Val Phe Gly Ala Leu
 305 310 315 320

Leu Pro Cys Glu Glu Cys Ser Gly Gln Leu Val Phe Lys Ser Asp Ala
 325 330 335

Tyr Tyr Cys Thr Gly Asp Val Thr Ala Trp Thr Lys Cys Met Val Lys
 340 345 350

Thr Gln Thr Pro Asn Arg Lys Glu Trp Val Thr Pro Lys Glu Phe Arg
 355 360 365

Glu Ile Ser Tyr Leu Lys Lys Leu Lys Val Lys Lys Gln Asp Arg Ile
 370 375 380

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Phe Pro Pro Glu Thr Ser Ala Ser Val Ala Ala Thr Pro Pro Pro Ser
385 390 395 400

Thr Ala Ser Ala Pro Ala Ala Val Asn Ser Ser Ala Ser Ala Asp Lys
405 410 415

Pro Leu Ser Asn Met Lys Ile Leu Thr Leu Gly Lys Leu Ser Arg Asn
420 425 430

Lys Asp Glu Val Lys Ala Met Ile Glu Lys Leu Gly Gly Lys Leu Thr
435 440 445

Gly Thr Ala Asn Lys Ala Ser Leu Cys Ile Ser Thr Lys Lys Glu Val
450 455 460

Glu Lys Met Asn Lys Lys Met Glu Glu Val Lys Glu Ala Asn Ile Arg
465 470 475 480

Val Val Ser Glu Asp Phe Leu Gln Asp Val Ser Ala Ser Thr Lys Ser
485 490 495

Leu Gln Glu Leu Phe Leu Ala His Ile Leu Ser Pro Trp Gly Ala Glu
500 505 510

Val Lys Ala Glu Pro Val Glu Val Val Ala Pro Arg Gly Lys Ser Gly
515 520 525

Ala Ala Leu Ser Lys Lys Ser Lys Gly Gln Val Lys Glu Glu Gly Ile
530 535 540

Asn Lys Ser Glu Lys Arg Met Lys Leu Thr Leu Lys Gly Gly Ala Ala
545 550 555 560

Val Asp Pro Asp Ser Gly Leu Glu His Ser Ala His Val Leu Glu Lys
565 570 575

Gly Gly Lys Val Phe Ser Ala Thr Leu Gly Leu Val Asp Ile Val Lys
580 585 590

Gly Thr Asn Ser Tyr Tyr Lys Leu Gln Leu Leu Glu Asp Asp Lys Glu
595 600 605

Asn Arg Tyr Trp Ile Phe Arg Ser Trp Gly Arg Val Gly Thr Val Ile
610 615 620

Gly Ser Asn Lys Leu Glu Gln Met Pro Ser Lys Glu Asp Ala Ile Glu
625 630 635 640

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His Phe Met Lys Leu Tyr Glu Glu Lys Thr Gly Asn Ala Trp His Ser
645 650 655

Lys Asn Phe Thr Lys Tyr Pro Lys Lys Phe Tyr Pro Leu Glu Ile Asp
660 665 670

Tyr Gly Gln Asp Glu Glu Ala Val Lys Lys Leu Thr Val Asn Pro Gly
675 680 685

Thr Lys Ser Lys Leu Pro Lys Pro Val Gln Asp Leu Ile Lys Met Ile
690 695 700

Phe Asp Val Glu Ser Met Lys Lys Ala Met Val Glu Tyr Glu Ile Asp
705 710 715 720

Leu Gln Lys Met Pro Leu Gly Lys Leu Ser Lys Arg Gln Ile Gln Ala
725 730 735

Ala Tyr Ser Ile Leu Ser Glu Val Gln Gln Ala Val Ser Gln Gly Ser
740 745 750

Ser Asp Ser Gln Ile Leu Asp Leu Ser Asn Arg Phe Tyr Thr Leu Ile
755 760 765

Pro His Asp Phe Gly Met Lys Lys Pro Pro Leu Leu Asn Asn Ala Asp
770 775 780

Ser Val Gln Ala Lys Val Glu Met Leu Asp Asn Leu Leu Asp Ile Glu
785 790 795 800

Val Ala Tyr Ser Leu Leu Arg Gly Gly Ser Asp Asp Ser Ser Lys Asp
805 810 815

Pro Ile Asp Val Asn Tyr Glu Lys Leu Lys Thr Asp Ile Lys Val Val
820 825 830

Asp Arg Asp Ser Glu Glu Ala Glu Ile Ile Arg Lys Tyr Val Lys Asn
835 840 845

Thr His Ala Thr Thr His Asn Ala Tyr Asp Leu Glu Val Ile Asp Ile
850 855 860

Phe Lys Ile Glu Arg Glu Gly Glu Cys Gln Arg Tyr Lys Pro Phe Lys
865 870 875 880

Gln Leu His Asn Arg Arg Leu Leu Trp His Gly Ser Arg Thr Thr Asn
885 890 895

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Phe Ala Gly Ile Leu Ser Gln Gly Leu Arg Ile Ala Pro Pro Glu Ala
900 905 910

Pro Val Thr Gly Tyr Met Phe Gly Lys Gly Ile Tyr Phe Ala Asp Met
915 920 925

Val Ser Lys Ser Ala Asn Tyr Cys His Thr Ser Gln Gly Asp Pro Ile
930 935 940

Gly Leu Ile Leu Leu Gly Glu Val Ala Leu Gly Asn Met Tyr Glu Leu
945 950 955 960

Lys His Ala Ser His Ile Ser Lys Leu Pro Lys Gly Lys His Ser Val
965 970 975

Lys Gly Leu Gly Lys Thr Thr Pro Asp Pro Ser Ala Asn Ile Ser Leu
980 985 990

Asp Gly Val Asp Val Pro Leu Gly Thr Gly Ile Ser Ser Gly Val Asn
995 1000 1005

Asp Thr Ser Leu Leu Tyr Asn Glu Tyr Ile Val Tyr Asp Ile Ala
1010 1015 1020

Gln Val Asn Leu Lys Tyr Leu Leu Lys Leu Lys Phe Asn Phe Lys
1025 1030 1035

Thr Ser Leu Trp
1040